

## **AMENDMENTS TO THE SPECIFICATION**

Please make the following amendments to the specification.

Delete paragraph 0322 and replace it with the following paragraphs:

The Nucleotide sequences of target binding sites, such as BINDING SITE I, BINDING SITE II and BINDING SITE III found on GAM TARGET RNAs of each of a plurality of GAM oligonucleotides described by Fig. 1, and a schematic representation of the complementarity of each of these target binding sites to each of a plurality of GAM RNAs described by Fig. 8 are set forth in Tables 6-7, hereby incorporated herein. Table 6 shows data relating to the SEQ ID NO of the GAM target binding site sequence of the target gene name as bound by the GAM RNA as set forth in SEQ ID NO: 159. Table 6, lines 1355054, 2843616, 6221084, 8186458, 9869798, 1222446, 1386260, 2801044, 6534578, 1178498, 2967386, 6595452 related to target binding site SEQ ID NO: 783894, 1517754, 3173983, 4136777, 4962915, 6130451, 799345, 1496799, 3328443, 696840, 1578845, and 3358376 respectively.

TARGET BINDING SITE SEQ-ID	TARGET ORGANISM	TARGET	TARGET BINDING SITE SEQUENCE
783894	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
1517754	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
3173983	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
4136777	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
4962915	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
6130451	Homo sapiens	EGFR	CTAAGGATAGCACCGCTTT
799345	Homo sapiens	EGFR	TTAACAGCAGTCCTTG
1496799	Homo sapiens	EGFR	TTAACAGCAGTCCTTG
3328443	Homo sapiens	EGFR	TTAACAGCAGTCCTTG
696840	Homo sapiens	EGFR	CAAACCCCTCCTTACGCTTG
1578845	Homo sapiens	EGFR	CAAACCCCTCCTTACGCTTG
3358376	Homo sapiens	EGFR	CAAACCCCTCCTTACGCTTG

Table 7, lines 146,394-146,401 and 146,419-146,422 shows data relating to target genes and binding site of GAM oligonucleotides.

GAM NAME	GAM ORG	GAM RNA	TARGET	TARGET	TARGET	TARGET	UTR	BINDING-SITE	DRAW
ANISM SEQUENCE BS-SEQ REF-ID ORGANISM (UPPER:GAM; LOWER:TARGET)									
GAM	Human	ACAAAGCG	CAAACCCC	EGFR	NM_005228	Human	3 CCCCCCTCCTTA		A
345		CTTCTCTT	CTCCTTAC			C AAA		CGCTTTGT	
990		TAGAGT	GCTTTGT			G TTT		GCGAAACA	
(SEQ ID NO: 159)			(SEQ ID NO: 1578845)			TGA A	CTCTTC----		
GAM	Human	ACAAAGCG	CTAAGGAT	EGFR	NM_005228	Human	3 - T CAC -		A
345		CTTCTCTT	AGCACCGC			CTAACAGGA AG	CGCTTT T		
990		TAGAGT	TTTT			GATTCT TT	GCGAAA A		
(SEQ ID NO: 159)			(SEQ ID NO: 6130451)						
GAM	Human	ACAAAGCG	TTAACAGC	EGFR	NM_005228	Human	3 C CA T -		A
345		CTTCTCTT	AGTCCTTT			T TAA AG G C CTTTGT			
990		TAGAGT	GT			A ATT TC T G GAAACA			
(SEQ ID NO: 159)			(SEQ ID NO: 3328443)			TG G -	TC TC C		

Delete paragraph 0323 and replace it with the following paragraphs:

It is appreciated that specific functions and accordingly utilities of each of a plurality of GAM oligonucleotides described by Fig.8 are correlated with, and may be deduced from the identity of the GAM TARGET GENES inhibited thereby, and whose functions are set forth in Table 8, hereby incorporated herein. Table 8 , lines 435532-435559 shows data relating to the function and utilities of GAM RNA as set forth in SEQ ID NO: 159.

GAM NAME	GAM RNA	GAM SEQUENCE	ORGANISM	TARGET	TARGET	GAM FUNCTION	GAM POS
GAM	ACAAAGCG	Human		EGFR	Human	Epidermal growth factor receptor (EGFR,	====
3459	CTTCTCTT					Accession number	: A
90	TAGAGT					NM_005228) is another GAM345990 target	
(SEQ ID NO: 159)						gene that is encoded by the human genome.	
						EGFR BINDING SITE 1 through EGFR BINDING	
						SITE 3 are human target binding sites that	
						are found in the untranslated regions of	
						mRNA encoded by the EGFR gene, corresponding	
						to target binding sites such as BINDING	
						SITE I, BINDING SITE II or BINDING SITE	
						III of Fig. 8. Additionally, using the	
						Binding site prediction system of the	
						present invention GAM345990-A binds to	
						sequences on orthologous UTR of (NM_031507).	
						The nucleotide sequences of EGFR BINDING	
						SITE 1 through EGFR BINDING SITE 3, and the	
						complementarity secondary structure	
						to the nucleotide sequence of GAM345990 RNA	
						are set forth in Tables 6-7, hereby	
						incorporated herein. Another function of	
						GAM345990 is to inhibit EGFR, a GAM345990	
						human target gene which is involved in the	
						control of cell growth and differentiation.	
						EGFR is associated with Nonsmall cell lung	

cancer, Small cell carcinoma, Lung cancer, Breast cancer and Colorectal cancer diseases, and therefore GAM345990 is associated with the abovementioned diseases. Accordingly, the utilities of GAM345990 include the diagnosis, prevention and treatment of Nonsmall cell lung cancer, Small cell carcinoma, Lung cancer, Breast cancer and Colorectal cancer and of other diseases and clinical conditions associated with EGFR. The function of EGFR and its association with various diseases and clinical conditions has been established by previous studies, as described hereinabove with reference to GAM338539.